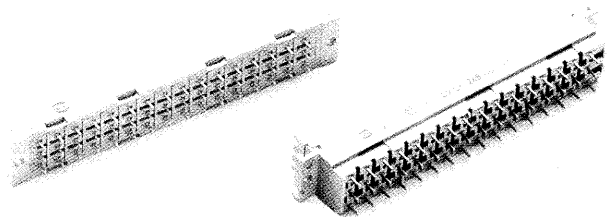


Number of contacts
48, 32



Female connectors

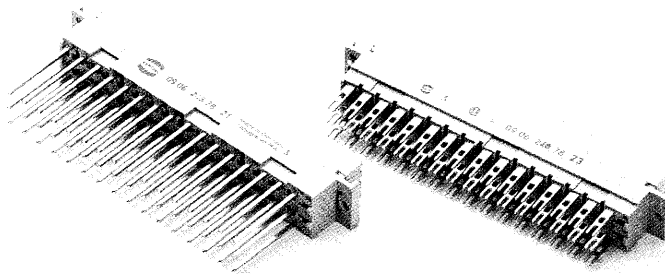
Identification	Number of contacts	Contact arrangement	Part No. 3	Performance levels according to DIN 41 612, explanations page 10 2	1
Female connector with solder pins 3.2 mm	48		09 06 248 7848	09 06 248 6848	09 06 248 2848*
			09 06 248 7833 ¹⁾	09 06 248 6833 ¹⁾	09 06 248 2833 ¹⁾ *
	32		09 06 232 7848	09 06 232 6848	09 06 232 2848*
			09 06 232 7833 ¹⁾	09 06 232 6833 ¹⁾	09 06 232 2833 ¹⁾ *
	32		09 06 232 7858	09 06 232 6858	09 06 232 2858*
			09 06 232 7893 ¹⁾	09 06 232 6893 ¹⁾	09 06 232 2893 ¹⁾ *
	48		09 06 248 7835	09 06 248 6835	09 06 248 2835*
			09 06 248 7834 ¹⁾	09 06 248 6834 ¹⁾	09 06 248 2834 ¹⁾ *
	32		09 06 232 7835	09 06 232 6835	09 06 232 2835*
			09 06 232 7834 ¹⁾	09 06 232 6834 ¹⁾	09 06 232 2834 ¹⁾ *
Female connector with solder pins 4.5 mm	48		09 06 248 7845	09 06 232 6845	09 06 232 2845*
			09 06 232 7894 ¹⁾	09 06 232 6894 ¹⁾	09 06 232 2894 ¹⁾ *
	32		09 06 248 7821	09 06 248 6821	09 06 248 2821*
			09 06 232 7821	09 06 232 6821	09 06 232 2821*
	32		09 06 232 7831	09 06 232 6831	09 06 232 2831*
	48		09 06 248 7823	09 06 248 6823	09 06 248 2823*
			09 06 232 7823	09 06 232 6823	09 06 232 2823*
	32		09 06 232 7843	09 06 232 6843	09 06 232 2843*
			09 06 248 7853	09 06 248 6853	09 06 248 2853*
Female connector with wrap posts 22 mm	48		09 06 248 7823	09 06 248 6823	09 06 248 2823*
			09 06 232 7823	09 06 232 6823	09 06 232 2823*
	32		09 06 232 7843	09 06 232 6843	09 06 232 2843*
			09 06 248 7853	09 06 248 6853	09 06 248 2853*
	32		09 06 232 7853	09 06 232 6853	09 06 232 2853*
			09 06 232 7863	09 06 232 6863	09 06 232 2863*
	48		09 06 248 7823	09 06 248 6823	09 06 248 2823*
			09 06 232 7823	09 06 232 6823	09 06 232 2823*
	32		09 06 232 7843	09 06 232 6843	09 06 232 2843*
Female connector with solder lugs	48		09 06 248 7823	09 06 248 6823	09 06 248 2823*
			09 06 232 7823	09 06 232 6823	09 06 232 2823*
	32		09 06 232 7843	09 06 232 6843	09 06 232 2843*
			09 06 248 7853	09 06 248 6853	09 06 248 2853*
	32		09 06 232 7853	09 06 232 6853	09 06 232 2853*
			09 06 232 7863	09 06 232 6863	09 06 232 2863*
	48		09 06 248 7823	09 06 248 6823	09 06 248 2823*
			09 06 232 7823	09 06 232 6823	09 06 232 2823*
	32		09 06 232 7843	09 06 232 6843	09 06 232 2843*

open solder lug



closed solder lug



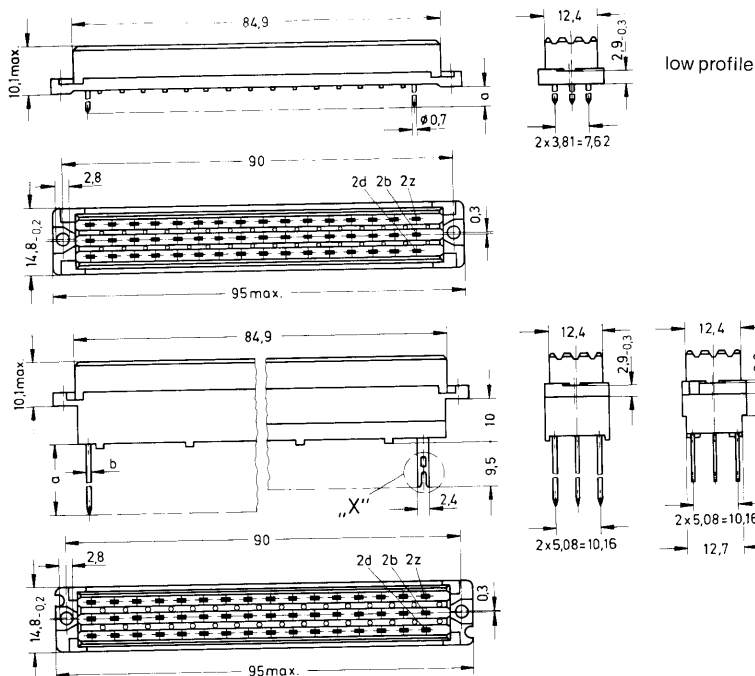


Identification

Female connectors
type F
DIN 41 612

Drawing

Dimensions in mm



a
3.2
4.5

Solder pins

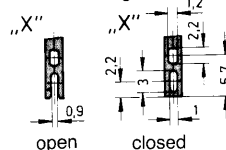
a	b
3.2	0.6
4.5	

Solder pins

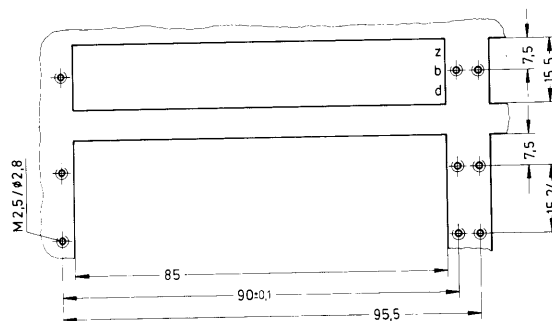
a	b
22	1

Wrap posts

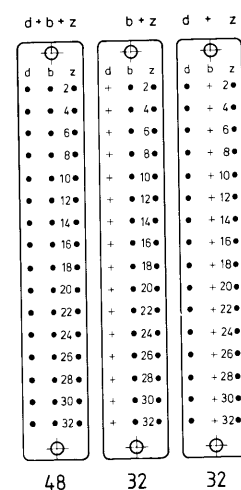
Solder lugs



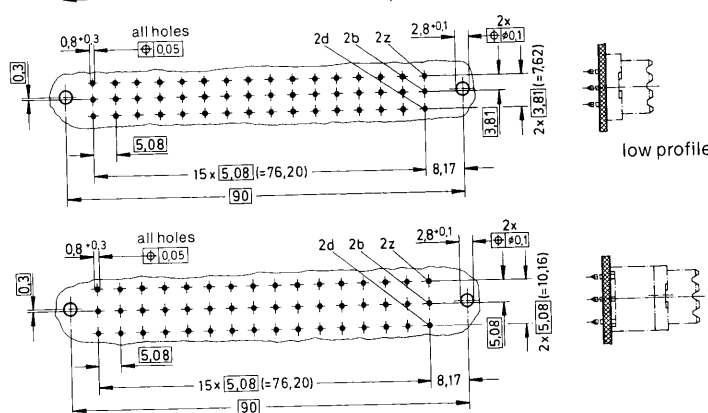
Panel cut out



Contact arrangement
View from termination side



Board drillings



Mating conditions page 10
Marking strips page 92
Coding information page 88

F/FC

Performance level 3 as per DIN 41 612, part 5

50 mating cycles.

Then visual inspection no gas test.
No functional impairment.

Part-number-explanation 09 7 . . .

Performance level 2 as per DIN 41 612, part 5

400 mating cycles.

200 mating cycles 4 days gas test using 10 ppm SO₂.
Measurement of contact resistance.
200 mating cycles then visual inspection. No abrasion of the
contact finish through to the base material.
No functional impairment.

Part-number-explanation 09 6 . . .

Performance level 1 as per DIN 41 612, part 5

500 mating cycles.

250 mating cycles 21 days gas test using 10 ppm SO₂.
Measurement of contact resistance.
250 mating cycles then visual inspection. No abrasion of the
contact finish through to the base material.
No functional impairment.

Part-number-explanation 09 2 . . .

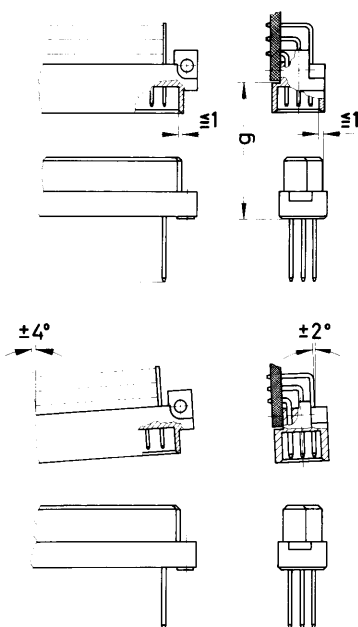
VG Version as per VG 95 324, part 1500 mating cycles – then 1 day gas test using 10.000 ppm
SO₂ and 1 day gas test using 10.000 ppm H₂S.
Then visual inspection. No abrasion of the contact finish through to the
base material. No functional impairment.

Part-number-explanation 09 4 . . .

Other plating finishes available on request.

Mating conditionsTo ensure reliable connections and prevent unnecessary damage,
please refer to the application data diagrams.

These recommendations are set out in DIN 41 612 P. 1.

The connectors shall not be coupled and decoupled under electrical
load.

g = 12,4 - 14,2

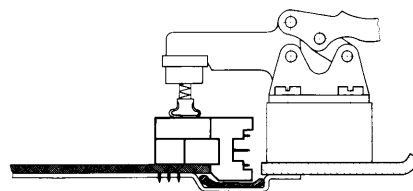
Soldering the male connectors into P.C. BoardsThe male connectors of the Gds A series should be protected when
soldering using dip, flow or film soldering baths, against contamination
as a result of soldering operations or deformation of the connector
bodies as a result of overheating.

- ① For prototypes and short runs cover the connectors with an industrial
adhesive tape, e.g. Tesaband 4657 grey. Tape the underside of the
connector moulding and adjacent parts of the P.C. Board and tape up
the open end of the connector. This will prevent heat and gases from
the soldering apparatus damaging the connector. About 140 + 5 mm
of tape should be sufficient.
- ② For large run production a jig is recommended. This has a protective
cover with a fast action mechanical locking device that shields the
connector from the gas and heat generated by the soldering ap-
paratus. For additional protection a foil can be used covering parts
not to be soldered.



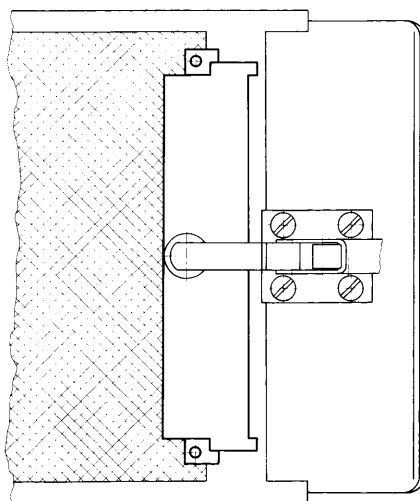
Adhesive tape

①



Intermediate foil

②



Identification

Part No.

Drawing

Dimensions in mm

Marking strips
for female
connectors

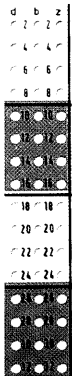
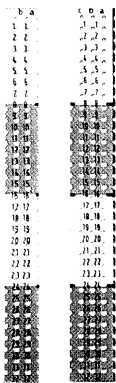
When using female connectors with wrapping posts in small and medium-sized quantities the wiring on a fully automated wiring machine is not always justified. However, when working with a manual wiring device there may be a problem of identification of the correct terminal, especially when using a high packing-density.

Therefore HARTING has developed marking strips with green and white printed fields showing also the row-letters and terminal-numbers. These can be mounted on the female connectors before starting the wiring.

Colour of letters/figures: black
Colour of fields: white/green

Gds A-B
09 02 000 9939

Gds A-C
09 03 000 9939



Gds A-F/FC
09 06 000 9939
09 06 000 9940

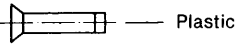
Starting with white field
Starting with green field

Identification	Part No.	Drawing	Dimensions in mm
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Coding system
with loss of
contact

Code pin
Gds A-B, A-2 B,
Gds A-C, A-2 C,
Gds A-CH, A-M,
Gds A-Q, A-2 Q,
Gds A-R, A-2 R
09 02 000 9901

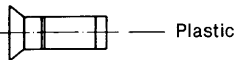
To avoid accidental incorrect mating of adjacent connectors a coding system is required. Coding is effected by means of a code pin to be inserted into the selected chamber of the female connector (contact cavity must be filled!). The opposite male contact must be removed by means of a specially designed tool.



Removal-tool
for male
contacts
09 99 000 0133



Code pin
Gds A-D, A-E,
Gds A-F/FC
Gds A-FM,
Gds A-2F/FC,
Gds A-MH
09 04 000 9908



Removal-tool
for male
contacts
09 99 000 0038



Coding system
without loss of
contact

with code pin

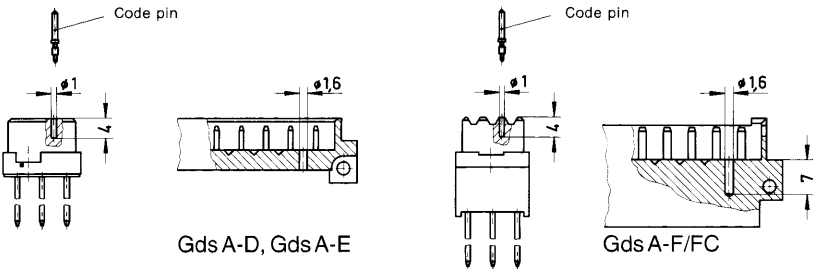
Code pin
09 06 000 9950



Insertion tool
09 99 000 0103



Mounting example



shroud coding

Gds A-F/FC
Gds A-H, MH

Code key
09 06 001 9919
09 06 001 9918

Insert the code key into one of the keyways in the female connector. Break out the corresponding area of the male shroud. Connectors utilising this coding method can only be used at a minimum rack spacing of 20.32 mm.

